

Braskem PE BS002W

High Density Polyethylene

Braskem

Message:

BS002W is a High Density Polyethylene (HDPE), copolymer, that can be used to produce thin walled packages. Offers an outstanding combination of impact resistance and stiffness, excellent stress cracking resistance (ESCR), good reproducibility of the weight of bottles and excellent surface.

Application:

Blow Molded Small Volume: Bottles for cleaning products, cosmetic products, food and surfactant products.

Process:

Blow Molding.

General Information			
Features	Rigidity, high		
	High ESCR (Stress Cracking Resistance)		
	High density		
	Impact resistance, high		
	Compliance of Food Exposure		
	Excellent appearance		
Uses	Non-specific food applications		
	Bottle		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Blow molding		
	Compression molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.959	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.33	g/10 min	ASTM D1238
190°C/21.6 kg	24	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693
2.00mm, 10% Igepal, molded, F50	65.0	hr	ASTM D1693
2.00mm, 100% Igepal, molded, F50	150	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, Compression Molded)	35.0	MPa	ASTM D638
Flexural Modulus - 1% Secant (Compression Molded)	1500	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact (Compression Molded)	300	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	84.0	°C	ASTM D648
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Injection instructions

Recommended Blow Molding Conditions:

Feeding Zone: 150°C to 160°C

Barrel: 160°C to 170°C

Die: 170°C to 180°C

Mold Temperature: 5°C to 25°C

Extruders Equipped with L/D at least equal to 24

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